

03 Title: Increasing Rotational Burn Testing of NDC Lot #51627-2A

NDC Lot # 51627-2A

Heat Treatment: 485°C, 30 minutes

Test Temp: 37°C X 1 °C

Sample length - 4.36 "

Chuck gap - 1.73"

<u>ID</u>	<u>Diameter (in)</u>	<u>Cycles</u>	<u>% Strain, %o</u>	<u>Crn. Shelf</u>
8-129-1	0.013	28611	0.75	Top
8-129-2	0.013	28216	0.75	Top
8-129-3	0.013	10440	0.75 *	Top
8-129-4	0.013	31416	0.75	Top
8-129-5	0.013	28511	0.75	Top
8-129-6	0.013	31563	0.75	Top
8-129-7	0.013	30810	0.75	Top
8-129-8	0.013	22557	0.75	Bottom
8-129-9	0.013	23655	0.75	Bottom
8-129-10	0.013	25769	0.75	Bottom
8-129-11	0.013	25923	0.75	Bottom

* Sample appears to be an outlier. The most probable cause for the low cycles to failure is improper loading of sample into chuck and inadequate hold on the sample. This will lead to improper functioning of the cycle counter. Sample is excluded from calculations.

Average: 27616

min: 22557

St dev: 3164

max: 31563

There appears to be a difference between samples taken from the top shelf & bottom shelf. This will be examined further.

Anja Patel 8-11-03

Sig/Initial 8/11/03

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9-9-03 Title: Incoming Rotational Beam Testing of NDC Lot # 51813-1

NDC Lot # 51813-1

Heat Treatment: 485°C, 30 minutes

Test Temp: 37°C +/- 1°C

Sample Length: 4.36"

Chuck gap: 1.73"

ID	Diameter (in)	Cycles	% Strain	Oven Shelf
8-130-1	0.013	18278	0.75	Top
8-130-2	0.013	18286	0.75	Top
8-130-3	0.013	18173	0.75	Top
8-130-4	0.013	19159	0.75	Top
8-130-5	0.013	19365	0.75	Top
8-130-6	0.013	20950	0.75	Bottom
8-130-7	0.013	20455	0.75	Bottom
8-130-8	0.013	20363	0.75	Bottom
8-130-9	0.013	25844	0.75	Bottom
8-130-10	0.013	24871	0.75	Bottom

Avg: 20504

StDev: 2612

Min: 25844 18173
Max: 25844

AP 7-7-03

Anuj Patel 9-9-03

S. Jang 9/9/03

9-11-03 Title Incoming Rotational Beam Testing of NDC Lot # 51813-2A

NDC Lot # 51813-2A

Heat Treatment: 485°C, 30 minutes

Rst Temp: 37°C ± 1°C

Sample length: 4.36"

Chuck gap: 1.73"

ID	Diameter (in)	Cycles	% Strain	Outer Shelf
8-131-1	0.013	20744	0.75	Top
8-131-2	0.013	18236	0.75	Top
8-131-3	0.013	21317	0.75	Top
8-131-4	0.013	21220	0.75	Top
8-131-5	0.013	20682	0.75	Top
8-131-6	0.013	17841	0.75	Bottom
8-131-7	0.013	18945	0.75	Bottom
8-131-8	0.013	20694	0.75	Bottom
8-131-9	0.013	20581	0.75	Bottom
8-131-10	0.013	19679	0.75	Bottom

Avg: 19994

St Dev: 1249

Min: 17841

Max: 20744

Sanjay Patel 9-11-03

Sanjay Patel 9-11-03

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1-14-03 Title: Rotary beam testing of Pavcor Lot #0264.

Heat treatment: 485 °C, 30 minutes.

Sample length: 4.36"

Chuck gap: 1.73"

ID	Diameter (in)	Cycles	% Strain
8-132-1	0.013	21687	0.75
8-132-2	0.013	24205	0.75
8-132-3	0.013	25079	0.75
8-132-4	0.013	25011	0.75
8-132-5	0.013	21916	0.75
8-132-6	0.013	22906	0.75
8-132-7	0.013	26101	0.75
8-132-8	0.013	21212	0.75
8-132-9	0.013	22967	0.75
8-132-10	0.013	24043	0.75

Avg: 23509.7

min: 21212

St dev: 1630

max: 26101

Ansys Param 10-15-03

S-D 10/15/03

10-30-03 Title: Raster beam testing of Paracor lot # 0269

Heat treatment: 485°C, 30 minutes

Sample length: 4.36"

Chuck gap: 1.73"

ID	Diameter	cycles	% Strain
8-133-1	0.013	16966	0.75
8-133-2	0.013	17754	0.75
8-133-3	0.013	18324	0.75
8-133-4	0.013	19705	0.75
8-133-5	0.013	19811	0.75
8-133-6	0.013	19859	0.75
8-133-7	0.013	17813	0.75
8-133-8	0.013	19704	0.75
8-133-9	0.013	20697	0.75
8-133-10	0.013	20136	0.75

Avg: 19077

St Dev: 1250

min: 16966

max: 20697

Angie Pach 10-30-03

.013^{10⁻³}

[Signature]

5-03 Title: Rotating Beam Testing of Precof L# 0284

Heat Treatment: 485°C, 30 min

Sample length: 4.36"

Chuck gap: 1.73"

ID	Diameter (in)	Cycles	% Strain
8-134-1	0.013	25833	0.75
8-134-2	0.013	27441	0.75
8-134-3	0.013	26148	0.75
8-134-4	0.013	30143	0.75
8-134-5	0.013	31505	0.75
8-134-6	0.013	28750	0.75
8-134-7	0.013	27770	0.75
8-134-8	0.013	28392	0.75
8-134-9	0.013	26903	0.75
8-134-10	0.013	25030	0.75

Avg: 27882

St. Dev: 1959

Min: 25830

Max: 31505

Angie P 11-5-03

CDJ 11-6-03

1-15-04 Title: Rotating Beam Testing of Paracor lot # 0443

Heat Treatment: 485°C, 30 min

Sample Length: 1.36"

Chuck gap: 1.75"

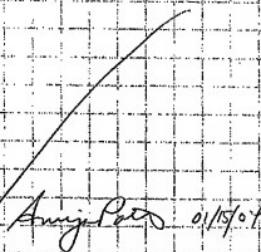
ID	Diameter (in)	Cycles	% Strain
8-135-1	0.013	24561	0.75
8-135-2	0.013	22664	0.75
8-135-3	0.013	15981	0.75
8-135-4	0.013	22726	0.75
8-135-5	0.013	20210	0.75
8-135-6	0.013	23031	0.75
8-135-7	0.013	85152	0.75
8-135-8	0.013	22876	0.75
8-135-9	0.013	24999	0.75
8-135-10	0.013	21476	0.75

Avg: 22318

Std Dev: 2715

max: 15981

min: 85152



Amij Patel 01/15/04

Sgn ~ 1/15/04

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7-30-04 Title: Rotary beam testing of Paracor lot # 0696.

Heat Treatment: 485°C 30 min

Sample length: 4.36"

Chuck gap: 1.73"

ID	Diameter (in)	Cycles	% strain
8-146-1	0.013	29252	0.75
8-146-2	0.013	21729	0.75
8-146-3	0.013	27850	0.75
8-146-4	0.013	22716	0.75
8-146-5	0.013	27465	0.75
8-146-6	0.013	27478	0.75
8-146-7	0.013	27478	0.75
8-146-8	0.013	30024	0.75
8-146-9	0.013	27421	0.75
8-146-10	0.013	27825	0.75

Avg: 26937.8
StDev: 2591.54Min: 21729
Max: 30024